Figure 1. Mouse Klf4 DNA sequence (SEQ ID NO: 1)

1 gacgccaaga gagcgagcgc ggctccgggc gcgcggggag cagaggcggt ggcgggcggc 61 gagagacco ggagoogoog agtgooocto conquecto caquescocca cocaqqaacc 121 egecegtgae eegegeeeat ggeegegege acceggtaca gteeceagga eteegeacee 181 egegecaceg tecagetege agtteegege cacegeggee atteteacet ggeggegeeg 241 decaded decagaceae ageocoogeg edgeogadag ceadagtigge egegadaaeg 301 gtgggggaca ctgctgagto caagagegtg cageetggcc ateggaceta ettatetgee 361 tigotgatty totattitta taagagtita caacttitot aagaattitt gtatacaaag 421 gaactttttt taaagacatc geeggtttat attgaateea aagaaqaagg atetegggea 481 atctgggggt tttggtttga ggttttgttt ctaaagtttt taatcttcgt tgactttggg 541 geteaggtae ecctetetet tetteggaet eeggaggaee ttetgggeee ecacattaat 601 gaggeageea eetggegagt etgaeatgge tgteagegae getetgetee egteettete 661 caegttegeg teeggeeegg egggaaggga gaagaeastg egteeageag gtgeeeegas 721 taadogstigg ogtgaggaad tototoadat gaagogadtt oddddaotto ocqqodqood 781 ctacgacety geggegaegg tygecaeaga cetygagagt ggeggagety gtgeagetty 841 cageagtaac aacceggeed tectagedeg gagggagade gaggagttea acgaectect 901 ggaddtagad tittatodtit ddaactogot aadddaddag gaatoggtgg ddgddaddt 961 gaccaccteg gegteagett catectegte tteeceggeg ageageggee etgecagege 1021 geceteeace tgeagettea getateegat eegggeeggg ggtgaelegg gegtggetge 1081 cagaaacaca ggtggagggo toototacag cogagaatot gcgccacoto ccacggccco 1141 ottoaacetg ggggacatca atgacgtgag cocctogggc ggottogtgg otgagctoot 1201 geggeeggag ttggacccag tatacattee gecaeageag ceteageege eaggtggggg 1261 gotgatggge aagtitigtge tigaaggegte totgaceace ootggeageg agtacageag 1321 cccttcggtc atcagtgtta gcaaaggaag cccagacggc agccaccccg tggtagtggc 1381 geodtacage ggtggcccgc cgcgcatgtg ccccaagatt aagcaagagg cggtcccgtc 1441 otgoacggte ageoggteed tagaggeeda tittgageget ggaccecage teagcaacgg 1501 ccaeeggees aacacacacg acttoccest ggggeggeag etceesacca ggactacees 1561 tacactgagt occgaggaac tgotgaacag cagggactgt caccetgges tgoctottes 1621 cocaggatto datocodate ogggggodaa etasectect ttootgodag accagatgoa 1681 gteacaagte coctetetee attateaaga geteatgeea eegggtteet geetgeeaga 1741 ggagoccaag ccaaagaggg gaagaaggte gtggocoegg aaaagaacag ccacccacae 1801 ttgtgactat gcaggctgtg gcaaaaccta taccaagagt totcatotca aggcacacct 1861 gcgaactcac acaggegaga aacettacca etgtgactgg gacggetgtg ggtggaaatt 1921 egeologictos gatgaactga coaggoacta cogcaaacac acagggoacc ggocotttoa 1981 gtgccagaag tgtgacaggg ccttttccag gtcggaccac cttgccttac acatgaagag 2041 geaettttaa atcccacgta gtggatgtga cccacactgc caggagagag agttcagtat 2101 ttttttttct aacctttcac actgtcttcc cacgaggga ggagcccage tggcaagcgc 2161 tacaatcatg gtcaagttcc cagcaagtca gcttgtgaat ggataatcag gagaaaggaa 2221 gagtocaaga gacaaaacag aaatactaaa aacaaacaaa caaaaaaaaca aacaaaaaaa 2281 ccaagaaaaa aaaatcacag aacagatggg gtotgatact ggatggatot totatcatto 2341 caataccaaa tocaacttga acatgooogg acttacaaaa tgccaagggg tgactggaag 2401 tttgtggata tcagggtata cactaaatca gtgagcttgg ggggagggaa gaccagqatt 2461 cccttgaatt gtgtttcgat gatgcaatac acacgtaaag atcaccttgt atgctctttg 2521 ccttcttaaa aaaaaaaagc cattattgtg tcggaggaag aggaagcgat tcaggtacag 2581 aacatgttet aacageetaa atgatggtge ttggtgagtt gtggteetaa aggtaccaaa 2641 cgggggagec aaagttetee aactgetgea taettttgae aaggaaaate tagttttgte 2701 ttccgatcta cattgatgac ctaagccagg taaataagcc tggtttattt ctgtaacatt 2761 tttatgcaga cagtctgtta tgcactgtgg tttcagatgt gcaataattt gtacaatggt 2821 ttattcccaa gtatgccttt aagcagaaca aatgtgtttt tctatatagt tccttgcctt 2881 aataaatatg taatataaat ttaaccca

Figure 2. DNA sequence for Human GKlf4 (SEQ ID NO:2)

1tcgaggcgac cgcgacagtg gtgggggacg ctgctgagtg gaagagagcg cagcccggcc 61 accggaccta cttactcgcc ttgctgattg tctatttttg cgtttacaac ttttctaaga 121 actittgtat acaaaggaac titttaaaaaa agacgcticc aagttatatt taatccaaag 181 aagaaggate teggeeaatt tggggttttg ggttttgget tegtttette tettegttga 241 ctttggggtt caggtgcccc agetgetteg ggetgeegag gaeettetgg geeeccacat 301 taatgaggca gccacctggc gagtctgaca tggctgtcag cgacgcgctg ctcccatctt 361 totocaegtt egegtetgge eeggegggaa gggagaagae actgegteaa geaqqtqeee 421 egaataaceg etggegggag gageteteee acatgaageg actteeecea gtgetteeeg 481 geogeoceta tgacetggeg geggegaceg tggccacaga cetggagage ggeggageeg 541 gtgcggcttg cggcggtage aacctggcgc ccctacctcg gagagagacc gaggagttca 601 acgatetect ggacetggae tttattetet ceaatteget gacecatect eeggagteag 661 tggccgccac cgtgtcctcg tcagcgtcag cctcctcttc gtcgtcgccg tcgagcagcg 721 geoetgecag egegeeetee acetgeaget teacetatee gateegggee gggaacgace 781 cgggcgtggc geegggegge acgggcggag geeteeteta tggcagggag teegeteece 841 ctccgacggc tecettcaac ctggcggaca tcaacgacgt gagcccetcg ggcggcttcg 901 tggccgagct cctgcggcca gaattggacc cggtgtacat tccgccgcag cagccgcagc 961 cgccaggtgg cgggctgatg ggcaagttcg tgctgaaggc gtcgctgagc gccctggca 1021 gcgagtacgg cagcccgtcg gtcatcagcg tcagcaaagg cagccctgac ggcagccacc 1081 cggtggtggt ggcgccctac aacggcgggc cgccgcgcac gtgccccaag atcaagcagg 1141 aggeggtete ttegtgeace caettgggeg etggaceece teteageaat ggeeacegge 1201 eggetgeaca egaetteece etggggegge ageteeceag eaggaetace eegaeeetgg 1261 gtettgagga agtgetgage ageagggaet gteaceetge eetgeegett eeteeegget 1321 tocatococa coeggggeec aattacocat cetteetgee egateagatg cageegeaag 1381 tecegeeget ccattaceaa gageteatge caceeggtte etgeatgeea gaggageeca 1441 agccaaagag gggaagacga tcgtggcccc ggaaaaggac cgccacccac acttgtgatt 1501 acgcgggctg cggcaaaacc tacacaaaga gttoccatct caaggcacac ctgcgaaccc 1561 acacaggtga gaaaccttac cactgtgact gggaeggetg tggatggaaa ttegceeget 1621 cagatgaact gaccaggcac taccgtaaac acacggggca ccgcccgttc cagtgccaaa 1681 aatgegaceg ageattttee aggteggace acctegeett acacatgaag aggeattttt 1741 aaateecaga cagtggatat gacccacact gecagaagag aatteagtat tttttaettt 1801 tcacactgtc ttcccgatga gggaaggagc ccagccagaa agcactacaa tcatggtcaa 1861 gttcccaact gagtcatctt gtgagtggat aatcaggaaa aatgaggaat ccaaaagaca 1921 aaaatcaaag aacagatggg gtotgtgact ggatottota toattocaat totaaatoog 1981 acttgaatat teetggaett acaaaatgee aagggggtga etggaagttg tggatateag 2041 ggtataaatt atatccgtga gttgggggag ggaagaccag aattcccttg aattgtgtat 2101 tgatgcaata taagcataaa agatcacett gtattetett tacettetaa aagccattat 2161 tatgatgtta gaagaagagg aagaaattca ggtacagaaa acatgtttaa atagcctaaa 2221 tgatggtgct tggtgagtct tggttctaaa ggtaccaaac aaggaagcca aagttttcaa 2281 actgctgcat actttgacaa ggaaaatcta tatttgtctt ccgatcaaca tttatgacct 2341 aagtcaggta atatacctgg tttacttctt tagcattttt atgcagacag tctgttatgc 2401 actgtggttt cagatgtgca ataatttgta caatggttta ttcccaagta tgccttaagc 2461 agaacaaatg tgtttttcta tatagttcct tgccttaata aatatgtaat ataaatttaa 2521 gcaaacgtct attttgtata tttgtaaact acaaagtaaa atgaacattt tgtggagttt 2581 gtattttgca tactcaaggt gagaattaag ttttaaataa acctataata ttttatctq

Figure 3

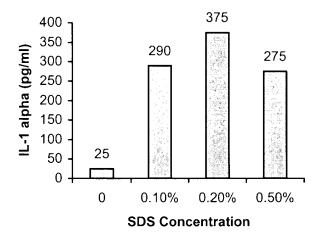
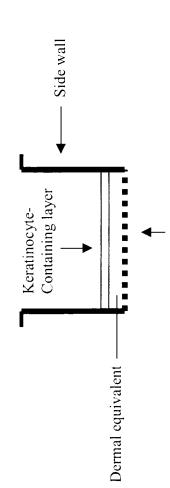


Figure 4



Permeable bottom surface